

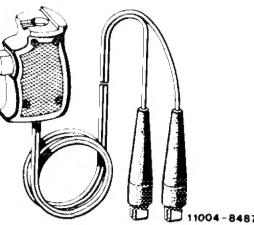
05–230 Removal and installation of rocker arms

Valve clearance	with engine cold (approx. 20 °C)	with engine warm (60 °C ± 15 °C)
Intake	0.10 ¹)	0.15 ¹)
Exhaust	0.20	0.25

¹) 0.05 mm higher during lasting outside temperatures below –20 °C.

Tightening torques	Nm
Nuts for cylinder head cover	15
Valve adjusting screws	20–40

Special tools

Pressure lever for valve spring		123 589 03 61 00
Valve adjusting wrench 17 mm, 1/2" square		110 589 00 01 00
Contact handle for rotating engine (component of compression pressure recorder (compressometer) 001 589 46 21 00)		001 589 46 21 08
Socket 27 mm, 1/2" square, for rotating engine		001 589 65 09 00

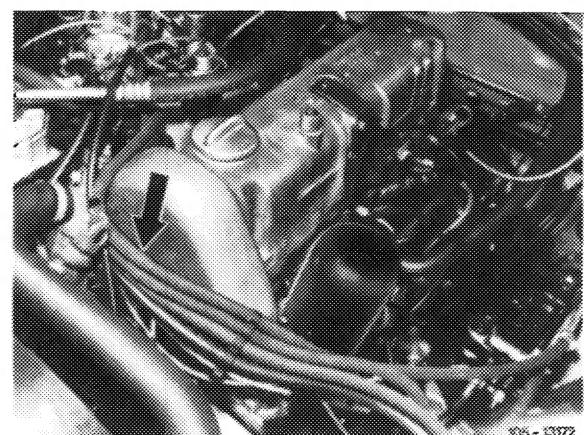
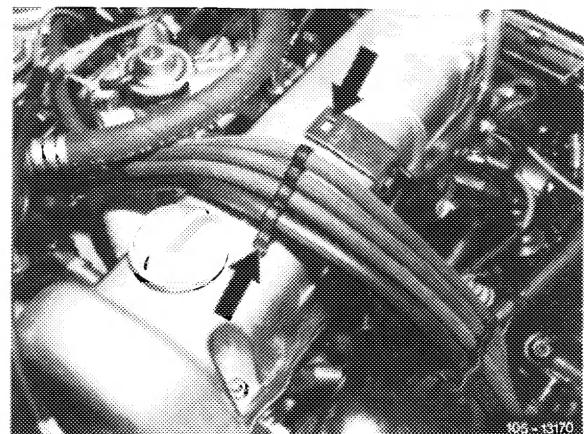
Note

Always install rocker arm at the same spot from where it has been removed.

If the rocker arms are renewed, also renew camshaft.

Removal

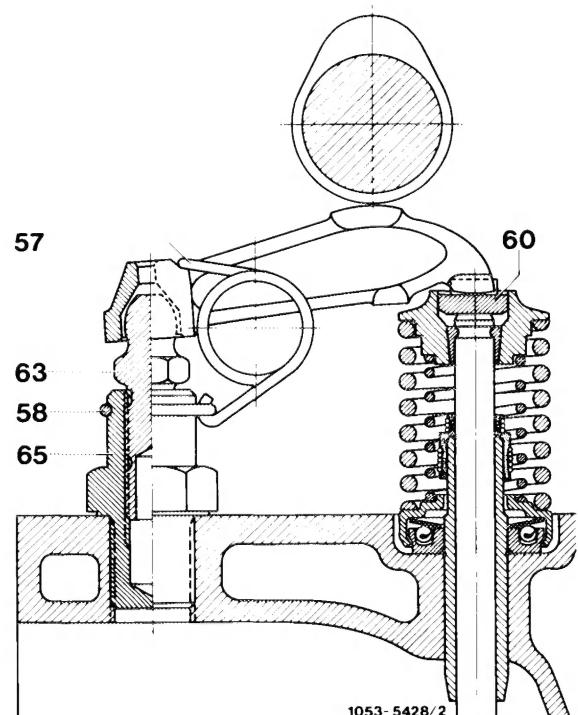
- 1 Remove cylinder head cover. For this purpose, for **AUS** , **J** , **S** and **USA** starting 1977, push out clamp assembly of fuel hoses on holder and pull down fuel hoses with clamp assembly in forward direction over cylinder head cover.



- 2 Set camshaft in such a manner that the rocker arm is unloaded (cam tip should point upwards).

Attention!

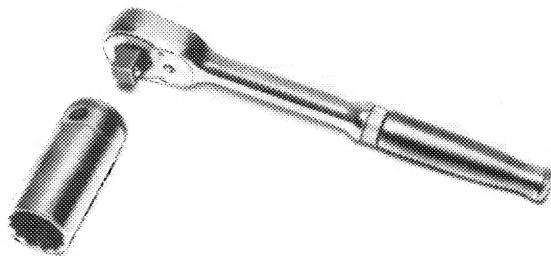
The engine can be rotated as follows:



a) with tool combination at crankshaft front.

Do not rotate engine at **fastening bolt of camshaft sprocket**.

Do not rotate crankshaft **backwards**.



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b) with starter and contact handle.

On model 115, connect contact handle to battery + and to starter terminal 50.

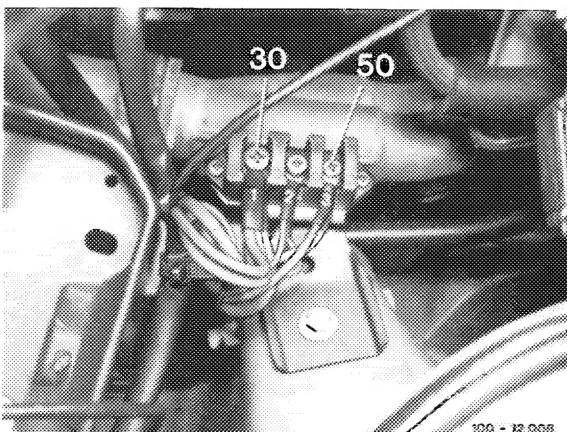
Terminate cable on ignition coil terminal 1.



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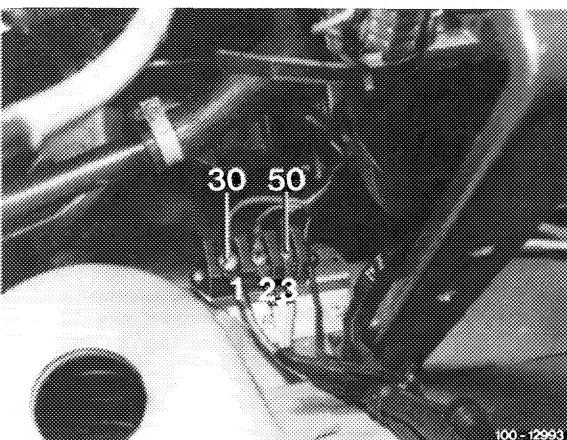
On model 123, connect contact handle to terminal 30 and terminal 50 to cable connector.

Terminate cable on ignition coil terminal 1.



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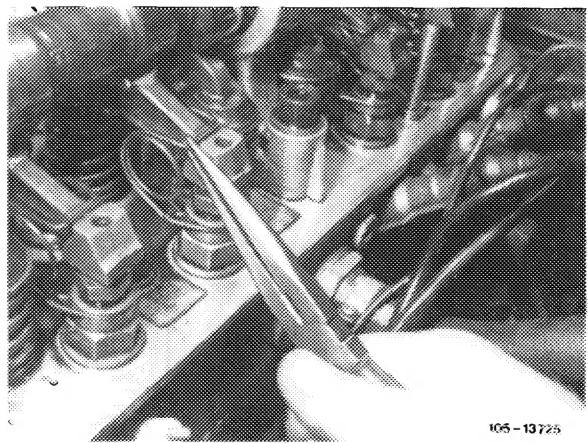
Lefthand steering



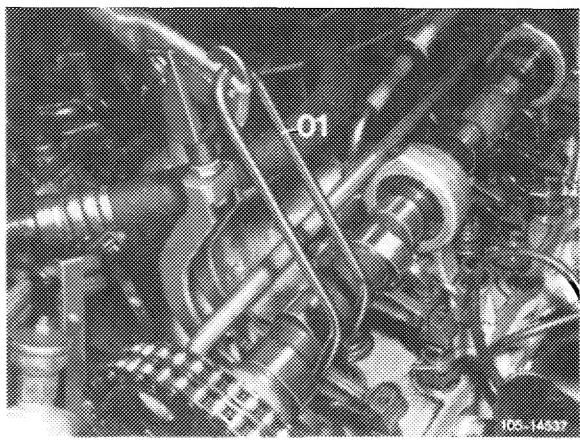
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Righthand steering

3 Pull down tensioning spring with a screw driver or pliers.



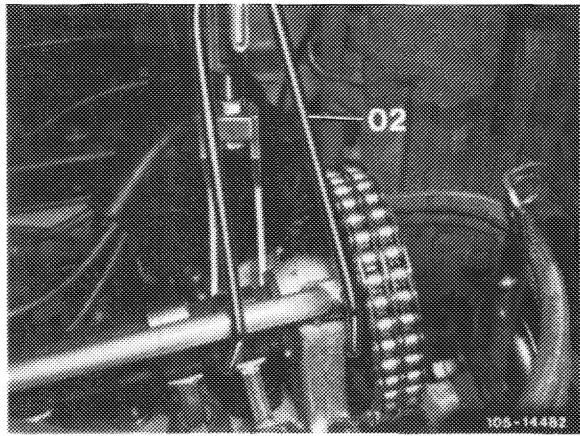
4 Push valve spring retainer down by means of pressure lever and remove rocker arm.



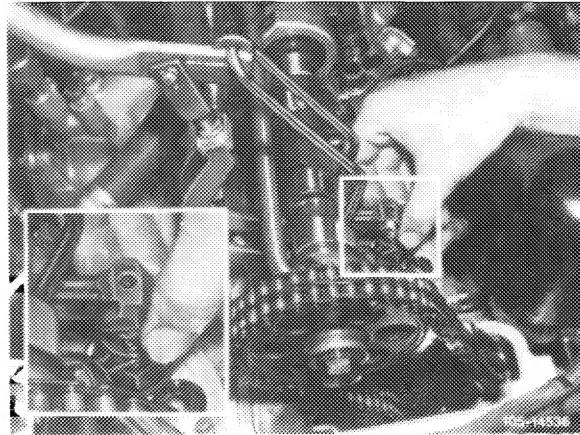
Attention!

For removal and installation of rocker arm on exhaust valve of 1st cylinder, use bracket (02).

Position bracket at camshaft and at 1st camshaft bearing.



Remove and install all other rocker arms with bracket (01).



Installation

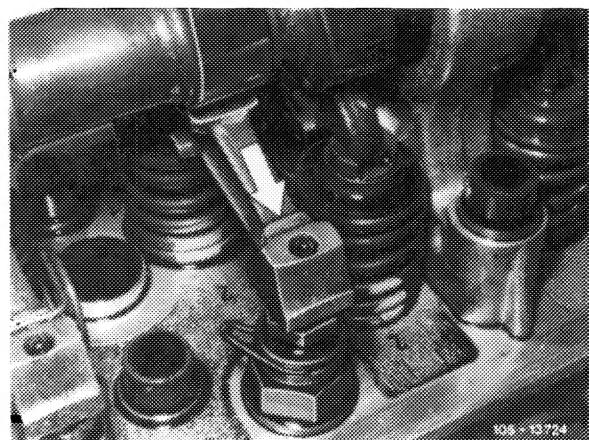
5 Lubricate contact surfaces of rocker arm.

6 Install rocker arm.

7 Mount tensioning spring with screw driver or pliers.

Tensioning spring should rest in recess on rocker arm (arrow).

8 Adjust valve clearance (05–210).



105-133724